

Model series 166 - Squeaking noises from area of front axle brake

Topic number	LI42.10-P-058839
Version	3
Design group	42.10 Service brake
Date	05-14-2014
Validity	Model series 166 except AMG model designations
	Production date up to: 31.08.2013
	Chassis end number up to: A297063
Reason for change	Adjustment of damage code
Reason for block	

Complaint:

When braking, squeaking noises from the front axle are heard just before the vehicle comes to a stop.

Cause:

Interaction between brake lining backplate and brake lining guide of brake carrier (push/pull dimension).

Remedy:

Check whether there is sufficient clearance between the brake lining backplate and the brake lining guide of the brake carrier:

- 1) Position screwdriver at lowest point of brake lining backplate (see attachment: "Screwdriver application point")
- 2) Press brake lining upwards
- 3) Measure distance between brake lining backplate (top side) and brake carrier (using feeler gauge) (see attachment: "Checking push/pull dimension")

If the distance is not between 0.6 and 1.1 mm, replace the following components of the front axle as per EPC:

- Brake carrier
- Brake linings

Then again check whether the push/pull dimension is within the tolerance range.

If it varies, create a TIPS case.

Attachments	
File	Description
Ansatzpunkt Schraubendreher.jpg	Screwdriver application point
Überprüfen des Push Pull Maß.jpg	Checking push/pull dimension

Symptoms
Chassis/suspension / Brake system / Service brake / Brake noise / Squeaking

Work units				
Op. no.	Operation text	Time	Damage code	Note
40-1590	REMOVE/INSTALL WHEELS (2)		42125 36	
42-2706	REMOVE/INSTALL BRAKE PADS OF FRONT AXLE, REPLACE IF NECESSARY (WHEELS REMOVED)		42125 36	
42-2717	REMOVE/INSTALL BRAKE CALIPERS OF FRONT AXLE, REPLACE IF NECESSARY (BRAKE PADS REMOVED)		42125 36	
42-2720	REMOVE/INSTALL BRAKE CARRIER, REPLACE IF NECESSARY (BRAKE CALIPER REMOVED)		42125 36	

WIS-References			
Document number	Title	Note	Allocation
AP40.10-P-4050EW	Remove/install wheels, rotate if necessary		Remedy
AR42.10-P-1600GQ	Remove/check/install front axle brake pads		Remedy
AR42.10-P-0070GZ	Remove/install front axle brake caliper		Remedy

Validity		
Vehicle	Engine	Transmission
GL (166)	*	*
M (166)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903
166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.057	276.955	722.906
166.058	276.955	722.906
166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031

166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.864	276.821	722.904
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.872	278.928	725.033
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.873	278.928	725.033
166.874	157.982	722.905
166.874	157.982	722.931